PATENT COOPERATION TREATY

From the INTERNATIONAL SEAL	RCHING AUTHORITY						
To:			PCT				
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)				
Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER ACTION See paragraph 2 below				
International application N PCT/US2009/036965		nal filing date (day/month)					
International Patent Classi INV. A61K9/14 A61K3 Applicant ELAN PHARMA INTE		al classification and IPC					
Box No. I Box No. II Box No. III Box No. III Box No. IV Box No. V Box No. V Box No. VIII Box No. VIII Box No. VIII Box No. VIII Compared to the applicant choose international Bureau will not be so considered the date of material with the date of material choose in the date of th	Reasoned statement under applicability; citations and Certain documents cited. Certain defects in the intercertain observations on the Nernational preliminary examples an Authority other than under Rule 66.1 bis(b) the dered. provided above, consider a written reply together, willing of Form PCT/SA/220	nion with regard to nover Rule 43 <i>bis</i> .1(a)(i) with explanations supporting the international application are international application are international application are international applications of the internation is made, this examining Authority in this one to be the IPE that written opinions of the internation are a written opinions.	velty, inventive step and industrial applicability ith regard to novelty, inventive step or industrial ing such statement				
	ee notes to Form PCT/IS/	A⁄220.					
European Pater D-80298 Munic Tel. +49 89 239 Fax: +49 89 239	ent Office ch 99 - 0	Date of completion of this opinion see form PCT/ISA/210	Authorized Officer Giménez Miralles, J Telephone No. +49 89 2399-8655				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2009/036965

	Box No. I Basis of the opinion	
1.	Vith regard to the language, this opinion has been established on the basis of:	
. [·	
	a translation of the international application into , which is the language of a translation furnished fo purposes of international search (Rules 12.3(a) and 23.1 (b)).	r the
2. [This opinion has been established taking into account the rectification of an obvious mistake auth by or notified to this Authority under Rule 91 (Rule 43bis.1(a))	orized
3. V n	ith regard to any nucleotide and/or amino acid sequenc e disclosed in the international application ar ecessary to the claimed invention, this opinion has been established on the basis of:	nd
	type of material:	
	☐ a sequence listing	
	□ table(s) related to the sequence listing	
b.	format of material:	
	□ on paper	
	□ in electronic form	
c.	ime of filing/furnishing:	
	□ contained in the international application as filed.	
	☐ filed together with the international application in electronic form.	
	☐ furnished subsequently to this Authority for the purposes of search.	
4. 🗆	In addition, in the case that more than one version or copy of a sequence listing and/or table relating the has been filed or furnished, the required statements that the information in the subsequent or additional specific propriate, were furnished.	nereto al
5. Add	itional comments:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2009/036965

	Box No. III Non-establishment of opinion with regard to							
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
c	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of							
_	☐ the entire international application							
Þ	☑ claims Nos. 1-86 in part							
b	ecause:							
;· □	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international search (specify):							
	the description, claims or drawings <i>(indicate particular elements below)</i> or said claims Nos. are so unclear that no meaningful opinion could be formed <i>(specify)</i> :							
⊠	the claims, or said claims Nos. 1-86 in part are so inadequately supported by the description that no meaningful opinion could be formed (specify):							
	see separate sheet							
Ø	no international search report has been established for the whole application or for said claims Nos. $1-86$ in							
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:							
	If turnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.							
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.							
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 ter. 1(a) or (b).							
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.							
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.							
	See Supplemental Box for further details							

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2009/036965

Во	x No. I	V Lack of unity	of inven	tion					
1. 🗆	In res applic	ponse to the invita able time limit:	ation (For	m PCT/ISA	√206) to pay	additional f	ees, the ap	plicant has,	within the
		paid additional I	iees						
		paid additional f	ees unde	r protest ai	nd, where ar	pplicable, the	e protest fe	a	
		paid additional f							
		not paid addition			,	and protogr	ice was no	t palo	
2. 🛛	This A	uthority found that plicant to pay add	t the requ itional fee	irement of s.	unity of inve	ention is not	complied w	ith and cho	se not to invite
3. This	Author	ity considers that	the requi	rement of t	unity of inve	ntion in acco	ordance with	h Rule 13.1,	, 13.2 and 13.3 is
	omplied								
⊠ n	ot comp	olied with for the f	ollowing r	easons:					
		parate sheet							
	-		boon						
⊠ ati	parts.	ly, this report has	been est	ablished in	respect of t	the following	parts of the	e internation	nal application:
- un	= hans	relating to claims	Nos.						
				•			•		
Box Nindus	No. V Itrial ap	Reasoned state pplicability; citati	ment un	der Rule 4	3 <i>bis</i> .1(a)(i)	with regard	to novelt	y, inventive	step or
1. Stater	nent	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ons and	explanatio	ons suppor	ting such s	tatement		
Novelt	y (N)			Claims					
			No:	Claims	. <u>1-86</u>				
Inventi	ive step) (IS)	Yes:	Claims					
			No:	Claims	1-86				
Industr	ial appi	licability (IA)	Yes:	Claims	<u>1-53</u>				
•			No:	Claims	<u>1-53</u> 54-86				
Citation	is and e	explanations							

see separate sheet

Re Item III

See International search report (ISR), Box II.2 and Further Information sheet PCT/ISA/210.

Re Item IV

The ISA considers that the international application does not comply with the requirement of unity of the invention as set forth in Rules 13.1, 13.2 and 13.3 PCT for the following reasons:

The inventive concept of formulating an antiangiogenic agent in stabilized nanoparticulate (nanocrystalline) dispersion wherein the nanoparticles have effective average particle size of less than 2000 nm and comprise a surface stabilizer associated therewith is not novel (see documents D1 to D5 cited in the ISR). Therefore, lack of unity arises as each single angiogenesis inhibitor as defined in claim 2 represents a separate invention, the multiple inventions covered by claim 2 not sharing any special technical feature(s) making a novel and inventive contribution over the prior art within the meaning of Rule 13.2 PCT.

Re Item V

- The relevant prior art documents are referred to as D1 to D9 as in the order of appearance in the International Search Report (ISR). Unless otherwise indicated, reference is made to the passages of said documents cited in the ISR.
- 2. Citations and explanations supporting the statement with regard to novelty (N), inventive step (IS) and industrial applicability (IA) (Rule 43bis.1(a)(i) and (b) PCT):
- (N) The subject-matter of claims 1, 34 and 54 is not novel because it is anticipated by the prior art (Article 33(2) PCT). D1-D5 anticipate solid nanoparticulate dispersions of angiogenesis inhibitors (2methoxyestradiol, tamoxifen, medroxyprogesterone, paclitaxel, thalidomide, etc.) having effective average particle size of less than 2000 nm, and a non-crosslinked polymeric surface stabilizer adsorbed onto / associated with the surface of the

nanoparticles, in particular polymers such as HPC, HPMC, copovidonum, etc. In particular, D1 and D2 anticipate exactly same subject-matter as claimed in present claims. Accordingly, nothing new can be seen in the subject-matter of present application.

- (IS) The subject-matter of claims 1, 34 and 54 is not considered to involve an inventive step (Article 33(3) PCT) for the reasons mentioned above.
- (IA) The subject-matter of claims 1-53 is considered to be industrially applicable (Article 33(4) PCT). The possibility of industrial application is beyond any doubt. The subject-matter of claims 54-86 is not considered to be industrially applicable as it cannot be used in "industry" as defined in the Paris Convention for the Protection of Industrial Property (Article 33(4) PCT).
- 3. Reservation statement regarding patentability:

The patentability of claims to methods of medical treatment (present claims 54-86) can be dependent upon the formulation of the claims. The EPO, for example, does not recognise as patentable claims to the use of a compound in medical treatment, but may allow claims to a product, in particular substances or compositions for use in a first or further medical treatment.

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO-ISA)

General information

For all international applications filed on or after 01/01/2004 the competent ISA will establish an ISR It is accompanied by the WO-ISA. Unlike the former written opinion of the IPEA (Rule 66.2 PCT), the WO-ISA is not meant to be responded to, but to be taken into consideration for further procedural steps. This document explains about the possibilities.

Art. 19 PCT

Amending claims Within 2 months after the date of mailing of the ISR and the WO-ISA the applicant may file amended claims under Art. 19 PCT directly with the International Bureau of WIPO. The PCT reform of 2004 did not change this procedure. For further information please see Rule 46 PCT as well as form PCT/ISA/220 and the corresponding Notes to form PCT/ISA/220.

Filing a demand for international preliminary examination

In principle, the WO-ISA will be considered as the written opinion of the IPEA. This should, in many cases, make it unnecessary to file a demand for international preliminary examination: If the applicant nevertheless wishes to file a demand this must be done before expiry of 3 months after the date of mailing of the ISR/WO-ISA or 22 months after priority date, whichever expires later (Rule 54bis PCT). Amendments under Art. 34 PCT can be filed with the IPEA as before, normally at the same time as filing the demand (Rule 66.1 (b) PCT).

If a demand for international preliminary examination is filed and no comments/amendments have been received the WO-ISA will be transformed by the IPEA into an IPRP (International Preliminary Report on Patentability) which would merely reflect the content of the WO-ISA. The demand can still be withdrawn (Art. 37 PCT).

Filing informal comments

After receipt of the ISR/WO-ISA the applicant may file informal comments on the WO-ISA directly with the International Bureau of WIPO. These will be communicated to the designated Offices together with the IPRP (International Preliminary Report on Patentability) at 30 months from the priority date. Please also refer to the next box.

End of the international phase

At the end of the international phase the International Bureau of WIPO will transform the WO-ISA or, if a demand was filed, the written opinion of the IPEA into the IPRP, which will then be transmitted together with possible informal comments to the designated Offices. The IPRP replaces the former IPER (international preliminary examination report).

Relevant PCT Rules and more inform ation

Rule 43 PCT, Rule 43bis PCT, Rule 44 PCT, Rule 44bis PCT, PCT Newsletter 12/2003, QJ 11/2003, QJ 12/2003